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A New Species of the Genus *Euconnus* (Coleoptera: Scydmaenidae) from Fukui Pref., Honshu, Japan

Hideto Hoshina*

Abstract. A new species of the genus *Euconnus* is described under the name, *E. (Euconophron) unpini* sp. nov., from Honshu, Japan.

Introduction

The genus *Euconnus* Thomson, 1859 is composed of about 2500 species in the world (Newton & Franz, 1998). In Japan, thirteen species of *Euconnus* have been recorded (Sharp, 1874; 1886; Reitter, 1891; Csiki, 1919; Franz, 1976; O’Keefe & Li, 1998; Hoshina, 2004a, 2004b, 2006; Hoshina et al., 2003; Hoshina & Arai, 2003; Hoshina & Nagano, 2005).

Recently, I collected one male specimen of *Euconnus* by sifting the litters from Obama City, Fukui Pref., Honshu, Japan. My careful examination showed the specimen belongs to a new member of *Euconnus*. In this paper, I describe the new species under the name, *Euconnus (Euconophron) unpini* sp. nov., with illustrations of important features.

The holotype designated in this study is deposited in the collection of the Museum of Nature and Human Activities, Hyôgo (MNHA).

Key Words: Coleoptera, Scydmaenidae, the genus *Euconnus*, new species, Japan

* Hideto Hoshina

(Department of Regional Environment, Faculty of Education & Regional Studies, Fukui University, Fukui City, 910-8507 Japan)

***Euconnus (Euconophron) unpini* Hoshina, sp. nov.**

(Japanese name: Unpin-hime-kokemushi)

(Figs. 1-5)

Diagnosis. Body is less than 1 mm. Dorsum is brownish and moderately pubescent. Pronotum has four basal foveae. Each elytron has two basal pits. The median lobe of aedeagus is slender in ventral and dorsal views.

Male. Measurement of holotype: Body 0.91 mm in length; head 0.15 mm in length (from clypeus to base) and 0.17 mm in width; pronotum 0.30 mm in length and 0.26 mm in width; elytra 0.52 mm in length and 0.38 mm in width.

Coloration. Dorsum of body shining and brownish; head and pronotum brown; elytra a little lighter than pronotum; maxillary palpus very light brown; 1st-7th antennal segments light brown; terminal four segments a little lighter than others; meso- and metasterna and venter brown with a black median carina of mesosternum; legs light brown; pubescences of dorsum translucence.

Head almost smooth, simply narrowed towards the base from eyes along lateral margins, weakly raised on vertex, and bearing stiff and thick pubescences along lateral margins and on occiput, and a little sparse and thin pubescences on vertex and frons; setal socket punctures of head very minute; eyes oval, about twice as long as wide, and about 0.30 times as long as length of head; inter-occipital distance about 0.70 times as wide as the maximal width of head; antennae elongate, and clavate on terminal four segments (Fig. 2); 1st, 2nd, and 7th antennal segments longer than wide; 5th and 6th segments about as long as wide; other segments wider than long; 11th segment robust; relative lengths of antennal segments from 2nd to 11th segments as follows:- 3.3: 1.4: 1.3: 1.5: 1.7: 1.8: 2.6: 2.3: 2.5: 3.1.

Pronotum convex, almost smooth, widest near base, a little sparsely and thinly pubescent, and bearing dense, stiff and thick pubescences along lateral margins; setal socket punctures of pronotum very minute; lateral margins feebly curved in an arc; basal four foveae distinct (Fig. 1); basal transverse groove absent.

Elytra almost smooth, widest at about basal 2/5, with a little sparse and fine pubescences; setal socket punctures of elytra very minute; each elytron bearing a basal depression extending to basal 1/9 of elytra and two small basal pits which are located closer to scutellum than lateral margins (Fig. 1); sutural striae absent.

Hind wings fully developed.

Legs similar to those of many other Japanese species of *Euconnus*; hind coxae close to each other; front tibiae almost as long as middle tibiae, and weakly narrowed from about basal 1/3 towards the base along external margins; middle tibiae weakly narrowed from about basal 1/3 towards the base along internal margins. hind tibiae about 1.1 times as long as front tibiae, and weakly narrowed from about basal 1/4 towards the base along internal margins.

Metasternum sparsely pubescent, smooth, impunctate, and convex; venter densely pubescent and weakly microreticulate.

Aedeagus slender (Figs. 3-5); the length of median lobe about 0.29 mm and the width about 0.14 mm in ventral and dorsal views; median lobe almost straight along lateral margins in ventral and dorsal views, sharply curved and bluntly pointed apically in lateral view; inner sac complex.

Distribution. Japan: Honshu (Fukui Pref.).

Type series. Holotype: male, Kusuya-Shrine, Katsumi, Obama City, Fukui Pref., Honshu, 31. v. 2007, H. Hoshina leg. (MNHA).

Remarks. *Euconnus* (*Euconophron*) *unpini* sp. nov. is one of the smallest Japanese species of the family Scydmaenidae and can be easily distinguished from other Japanese species of *Euconnus* by having small body less than 1 mm. The present new species is similar to *E. (E.) matsunoyamensis* Hoshina et Nagano, 2005, but separated it by having the slender media lobe of aedeagus (Figs. 3-5). In contrast, *E. (E.) matsunoyamensis* has the robust median lobe.

Note. The definitions of many subgenera of *Euconnus* are not established well. Therefore many species of *Euconnus* were described without subgenera (Newton & Franz, 1998; Hoshina, 2003). As a matter of convenience, I put the present new species in the subgenus *Euconophron* to which *E. unpini* sp. nov. is close.

Ethymology. This new species is dedicated to the famous royalist during the Restoration period, Unpin Umeda (1815-1859) who was born in the type locality, Obama City.

要約

保科英人：福井県からの鞘翅目コケムシ科 *Euconnus* 属（和名：ヒメコケムシ属）の
1 新種の記載

福井県小浜市堅海に位置する久須夜神社からヒメコケムシ属に含まれる新種が発見され、本稿にて、*Euconnus (Euconophron) unpini* sp. nov. (和名：ウンピンヒメコケムシ) と命名・記載された。学名及び和名は、若狭小浜藩出身の勤皇の志士・梅田雲浜 (1815—1859) に由来する。本種は、*E. (E.) matsunoyamensis* Hoshina et Nagano, 2005 (和名：マツノヤマヒメコケムシ) と似るが、マツノヤマヒメコケムシがほぼ球形の雄交尾器を持つのに対して、ウンピンヒメコケムシのそれは細長いので、形態的に区別できる。

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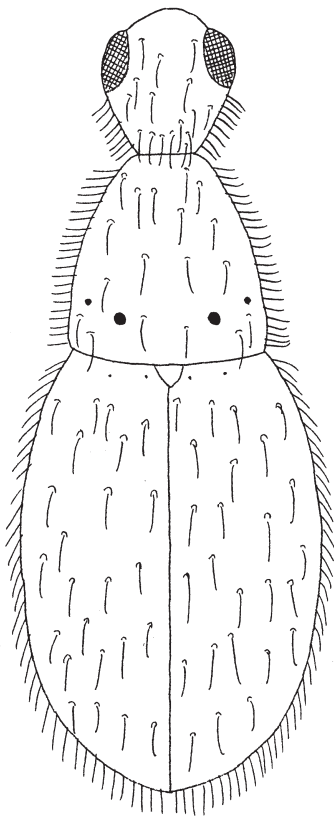
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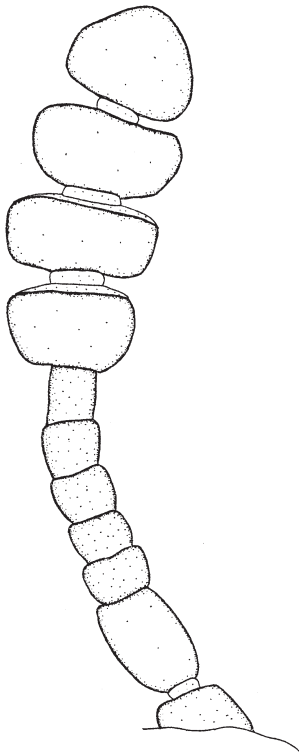
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Explanations of Figures

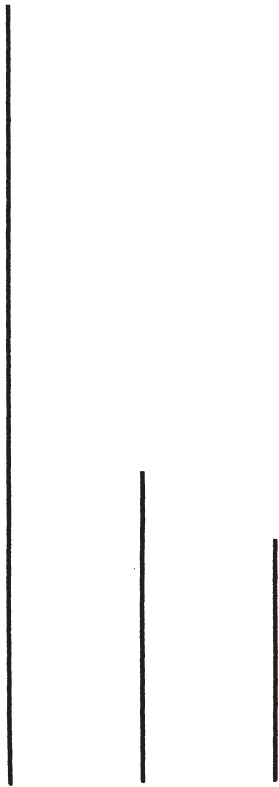
Figs. 1-5. *Euconnus* (*Euconophron*) *unpini* sp. nov. 1, body. 2, antenna. 3-5, aedeagus. 3, ventral view; 4, dorsal view; 5, lateral view. Scale A: 1 mm for Fig. 1. Scale B: 0.2 mm for Fig. 2. Scale C: 0.1 mm for Figs. 3-5.



1



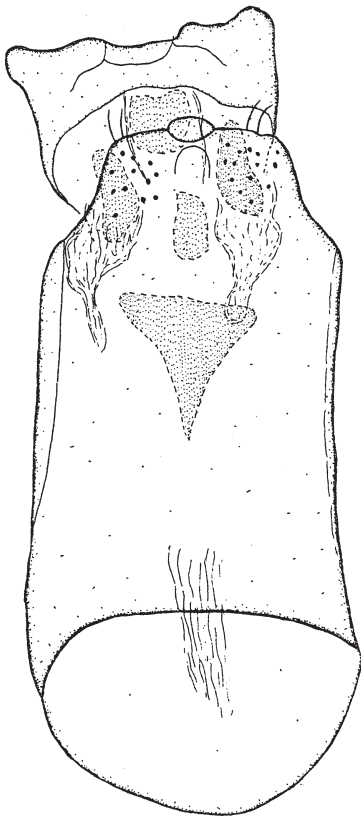
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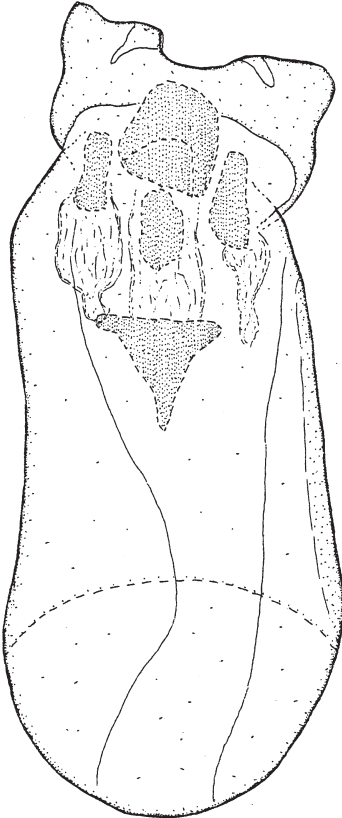
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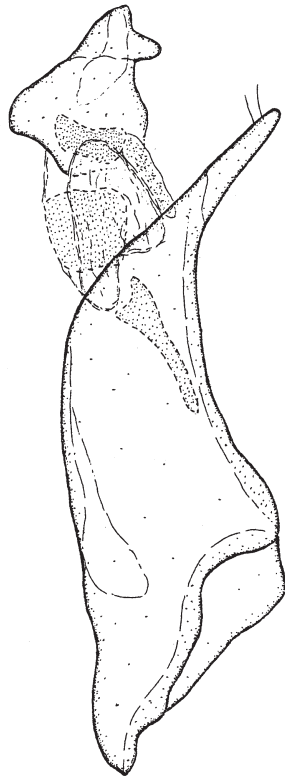
C



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